

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 63043920
PUBLICATION DATE : 25-02-88

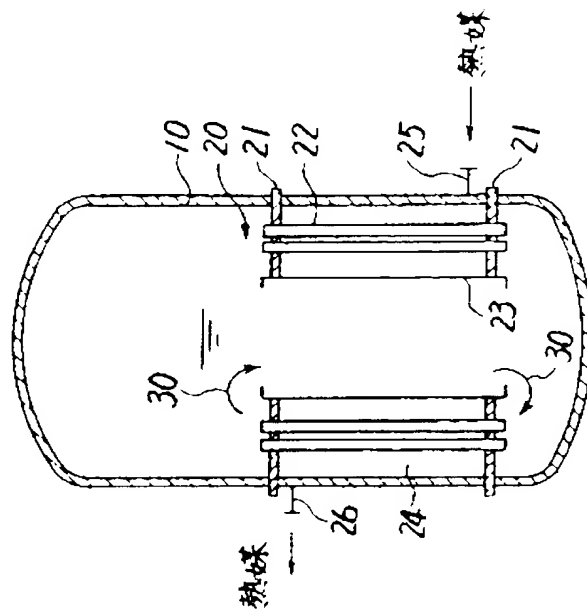
APPLICATION DATE : 11-08-86
APPLICATION NUMBER : 61186832

APPLICANT : HITACHI TECHNO ENG CO LTD;

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INT.CL. : C08G 63/00

TITLE : POLYESTER POLYCONDENSATION
APPARATUS



ABSTRACT : PURPOSE: To obtain a polyester without the need of suspending the operation of an esterification tank even in a trouble with an agitator, by providing the tank with a means for thermally agitating a reaction solution.

CONSTITUTION: A reaction tank 10 is charged with a reaction solution of a viscosity of 30~50P until a means for thermally agitating the solution in the tank 10, such as a calandria-type heat exchanger 20 comprising tubular sheets 21 and a draft tube 23, is completely submerged in the solution. A heating medium is supplied from an inlet 25 to a space 24 and discharged from an outlet 26 to the outside. Then, a heat exchange between the reaction solution in the reaction tank 10, namely, the reaction solution in a heating tube 22, and the heating medium in the space 24 takes place, and the reaction solution flows in the direction of an arrow 30 by a siphon effect of heat and agitation.

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